

sted: Tue, Feb 4, 1992 9:12 AM EST Msg: SJJ-1700-1570

m: LCARPENTER

MODIS.DATA.TEAM

bj: MODIS SDST Minutes 01/31/92

MODIS Science Data Support Team (SDST) Meeting Minutes 01/31/92

TENDEES: Lloyd Carpenter RDC 982-3708

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Harold Geller MCST/RDC 982-3740

Tom Goff RDC 982-3704

Liam Gumley RDC 982-3748

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Ed Masuoka 920 286-7608

Jim Ormsby 974 286-6811

Steve Ungar 923/MCST 286-4007

Wil Webster 920.2 286-4506

XT MEETING: Date Time Building Room

Friday, February 7 10:00 am 22 G95

PICS:

MODIS SCIENCE TEAM MEETING TOPICS: The peer review process

MODIS science algorithms is a topic which should be addressed

the next science team meeting. Peer review is an essential

part in the early stages, leading up to the integration of

algorithms into the product generation system. (The peer review

JARS algorithms was done six years before launch.)

MODIS SDST needs to generate a structured Team Member

questionnaire of reasonable questions addressing key issues

including Level-1 geolocation requirements, generation of

calibrated data, coordination with other projects (such as

SeaWiFS), collection of prototype algorithms, coding guidelines

and standards, algorithm integration schedules, etc. The

collected information would be used in planning and scheduling

SDST tasks and requirements.

MODIS AIRBORNE SIMULATOR (MAS): Liam Gumley reported on the

continuing processing of MAS data from the FIRE experiment.

Software development for the automatic identification of straight

flight track segments is under way. An estimate of hard

disk space requirements for MAS Level-1 processing was generated.

The minimum hard disk requirement for processing one MAS tape (9-

inches, 6250 bpi) is 1.2 Gigabyte. Typical MAS missions generate

between 3 to 7 tapes of MAS data. The future upgrade of MAS to 50

channels will increase the hard disk requirement by a factor of

four.

CLOUD ALGORITHM PORTING: Tom Goff has converted and ported fifth and final binary data file needed by the cloud topogram. The mixed integer and floating point data set was converted on the IBM mainframe and ported to the Iris. The next step is to work around the difficulty of reading (in FORTRAN) a coded mode unformatted (binary) file on the Iris.

new book "C-Style Standards & Guidelines" by David Straker may be helpful in developing SDST Guidelines.

SDST was authorized to buy the Perl language and manuals for automatic documentation from source code listings. This could be a very useful tool for the SDST.

Liam Webster and Ed Masuoka are going to work out some problems in establishing good remote communications between GSFC and RDC.

SDST SCHEDULE: Lloyd Carpenter presented an updated draft of SDST Schedule for CY 1992 through 1998.

ACTION ITEMS:

30/91 [Lloyd Carpenter and Team]: Draft a schedule of work for the next 12 months. Include primary events and milestones, documents to be produced, software development, MAS support, etc. (An updated draft schedule was included in the handout.) STATUS: Open. Due date 09/27/91.

06/91 [Liam Gumley]: Investigate a cataloguing scheme for the MAS data. Consider the Master Catalogue, PLDS and PCDS. STATUS: Open. Due date 02/14/92.

06/91 [Liam Gumley, Tom Goff, Ed Masuoka]: Develop a plan for coding and distributing MAS data. STATUS: Open. Due date 02/14/92.

03/92 [Ed Masuoka]: Check on the UCAR "copyright" as a first step in standardizing an SDST software copyright statement for file sharing. Check with legal. (Legal is developing the statement.) STATUS: Open. Due date 02/14/92.

03/92 [Team]: Check on the set of software engineering tools available in Code 530 to see if any of these would be of use to SDST. STATUS: Open. Due date 02/14/92.

17/92 [Tom Goff]: Have a polished version (with peer review) of the file dump routine ready for the MODIS Science Team reviewing. STATUS: Open. Due date 04/01/92.